MODIS sensor Working Group (MsWG) Meeting Summary August 1, 2007

Attendance: Gerhard Meister, Gary Toller, Junqiang Sun, James Kuyper, Elena Novakovskaia, Bill Barnes, Aisheng Wu, Liqin Tan, Vince Salomonson, Sadashiva Devadiga, Jack Xiong, Brian Wenny

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Scheduled Agenda

Item 1: Recent L1B LUT delivery

- None – Aqua delivery expected next week

Item 2: Instrument status

- Terra and Aqua MODIS are in nominal operations.
- Aqua non-recoverable data loss: 2007/203 06:03:17 – 07:20:34 (July 22), ground contact/playback errors resulting in SSR buffer overflow.

Item 3: MCST recent activities

- Discussion with Ocean Group regarding Aqua Band 1-4 Striping
    - Gerhard presented some results of a method to use the detector dependent residuals from lunar measurements applied to the Aqua m1 to reduce striping in Bands 1-4. The method showed definite promise in reducing the striping. Jack suggested some further testing to see impact on other discipline products. This improvement should be considered in the list of Collection 6 issues.
- Continuing discussion of possible Collection 6 issues.
    - Fill Value vs Interpolated L1B: Still waiting for response from science disciplines as to additional detectors to flag as inoperable. Sadashiva reported that he saw no problems with the fill values in the current test dataset – but is not certain as to the level of tolerance of the downstream products if additional detectors are flagged as inoperable, for example 4 adjacent 250m detectors. Further testing of that situation is needed.
    - A0/A2 update approach – MCST finalizing report, will present to MsWG
    - Detector dependent RVS – L1B code already set up to handle detector dependent RVS. Further special tests are needed.
    - Operational QA reporting: Special case of SV DN=0, L1B group to take lead.
    - Thermistor failure – Initial analysis underway
    - Operational QA reporting: Noise at subframe level – requires further analysis
    - Crosstalk correction – James made note that this issue had been left off the list.

Item 4: Around the Table

- Junqiang inquired about the results of the Ocean Color group testing of one of the two proposed methods to derive Band 13-16 RVS LUT. Gerhard reported that the tested approach (linear interpolation) showed improvement in the water leaving radiance products, but with some unresolved problems in the shortest wavelength channel (not unexpected).

Next Meeting: ~Aug 15, 2007

Compiled by B. Wenny